

NAV-TV

INTERFACING THE FUTURE

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UCT84 F-CAM

Front Camera Interface for uConnect 8.4" Systems

NTV-KIT507



BHM
4/9/15
NTV-DOC194

Overview

Allows video to be displayed while the vehicle is in motion and interfaces a front camera into select uConnect 8.4" Touch screen equipped vehicles. *Note: this interface is for adding only a front camera, not front & rear at this time!*

Kit Contents



USB Cable
NTV-CAB009



UCT84 F-CAM Module
NTV-ASY166



VSW Board
NTV-ASY187



DIFF-CAM II
NTV-ASY185



VSW Power Harness
NTV-HAR066



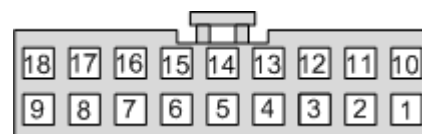
Plug & Play Harness
NTV-HAR050



F-CAM Harness
NTV-HAR261

UCT84 F-CAM Module Pin Outs

Pin #	Description	Color
1	12v Constant Power (+)	Yellow
2	N/A	Red
4	Input 3 (Force Rear Cam)	Pink
8	CAN HI (Radio side)	Pink/Black
9	CAN HI (Car side)	Blue
10	Ground (-)	Black
11	Output 1 (ACC out @ 1 amp)	White/Red
12	Output 2 (Reverse out @ 1 amp)	White/Blue
13	Output 3 (12v out w/ Front DEF) *	White/Purple
17	CAN LO (Radio side)	Pink
18	CAN LO (Car side)	Blue/Black



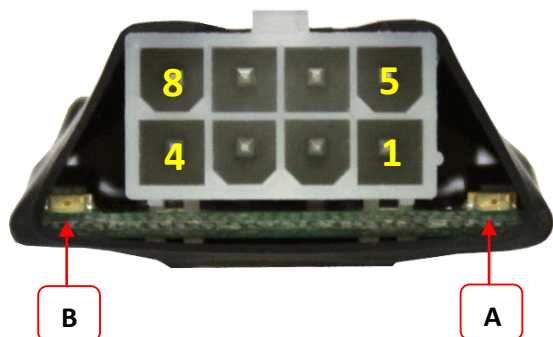
Wire side

Note: Any remaining wires not shown here are not used for this installation!

***Compatible Dodge Charger, Journey and Chrysler 300 only.**

VSW Pin Outs

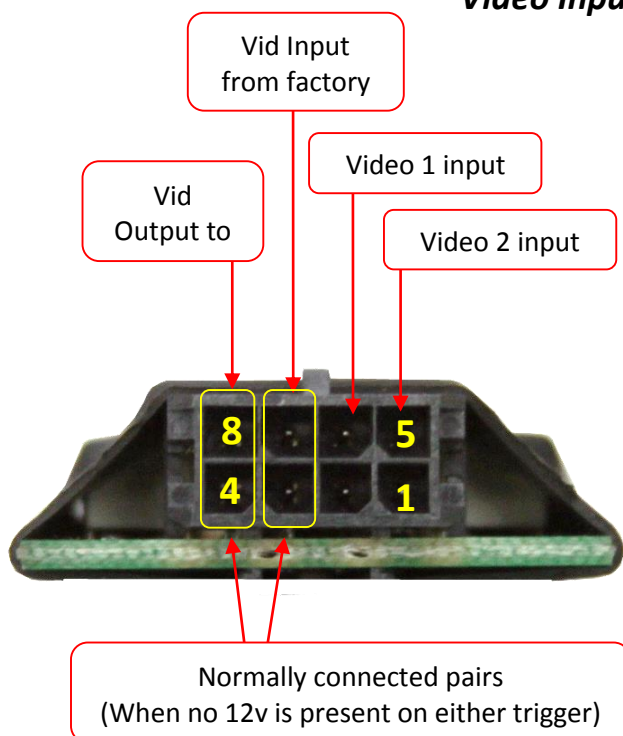
Power/Trigger Connector



PIN #	Description	Color
1	Video 2 Trigger	White/Blue
2	Video 1 Trigger	White/Red
6	Ground	Black

LED	Description
A	LED: When illuminated, Video 2 is active
A & B	LEDs: When both illuminated, Video 1 is active
NO LED	LEDs: When none illuminated, factory video pass through

Video Input/Output Connector



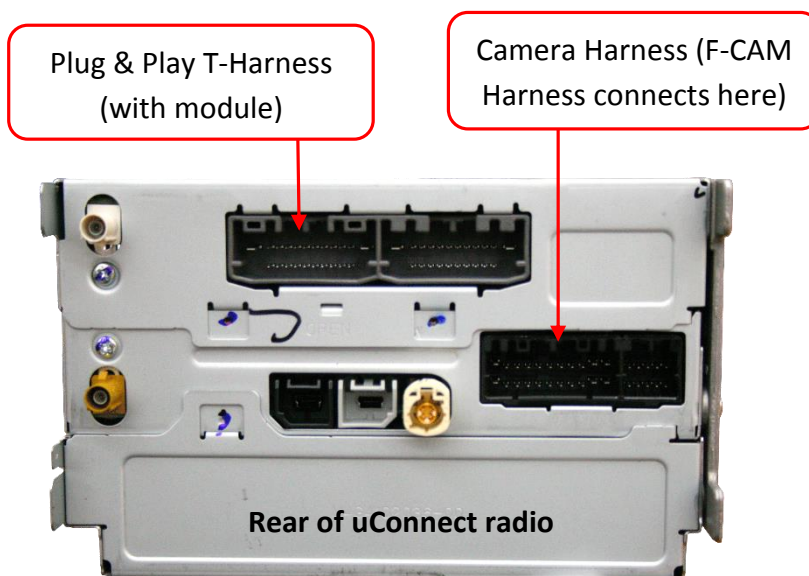
PIN #	Description	Color
1	RCA Video 2 input (-)	[Shield]
2	RCA Video 1 input (-)	[Shield]
3	Vehicle Video IN (-)	Orange
4	Radio Video OUT (-)	Gray/Orange
5	RCA Video 2 input (+)	White
6	RCA Video 1 input (+)	Green
7	Vehicle Video IN (+)	Dark Blue
8	Radio Video OUT (+)	Gray/Blue

Installation

1. Remove the **radio** (only) from the dashboard. This requires pulling some panels and a series of screws will hold the radio into the sub-dash.
2. Disconnect all harness from the radio and set the radio aside.
3. Connect the male end of the **car's main radio harness** to the female end of the supplied Plug & Play T-Harness.
4. **Choose an option from the diagrams on page 5 and 6 (FIG 2 or FIG 3 based on which vehicle you're installing into) and make all connections. When complete, return here to step 6 to finish the installation.**
5. Plug the UCT84 module into the 18-pin connector attached to the plug and play harness from step 3.
6. Connect the provided **VSW Board** to both 8-pin connectors (if you haven't already).
7. Plug the male end of the supplied plug & play T-harnesses to the radio. **Note: if this vehicle possesses an OEM camera, the Camera Harness (see FIG 1 below) will already be populated. Connect the F-CAM T-harness in between the radio and the factory plug.**
8. Reconnect the remaining plugs to the radio (antennas etc), remount and test for proper operation.

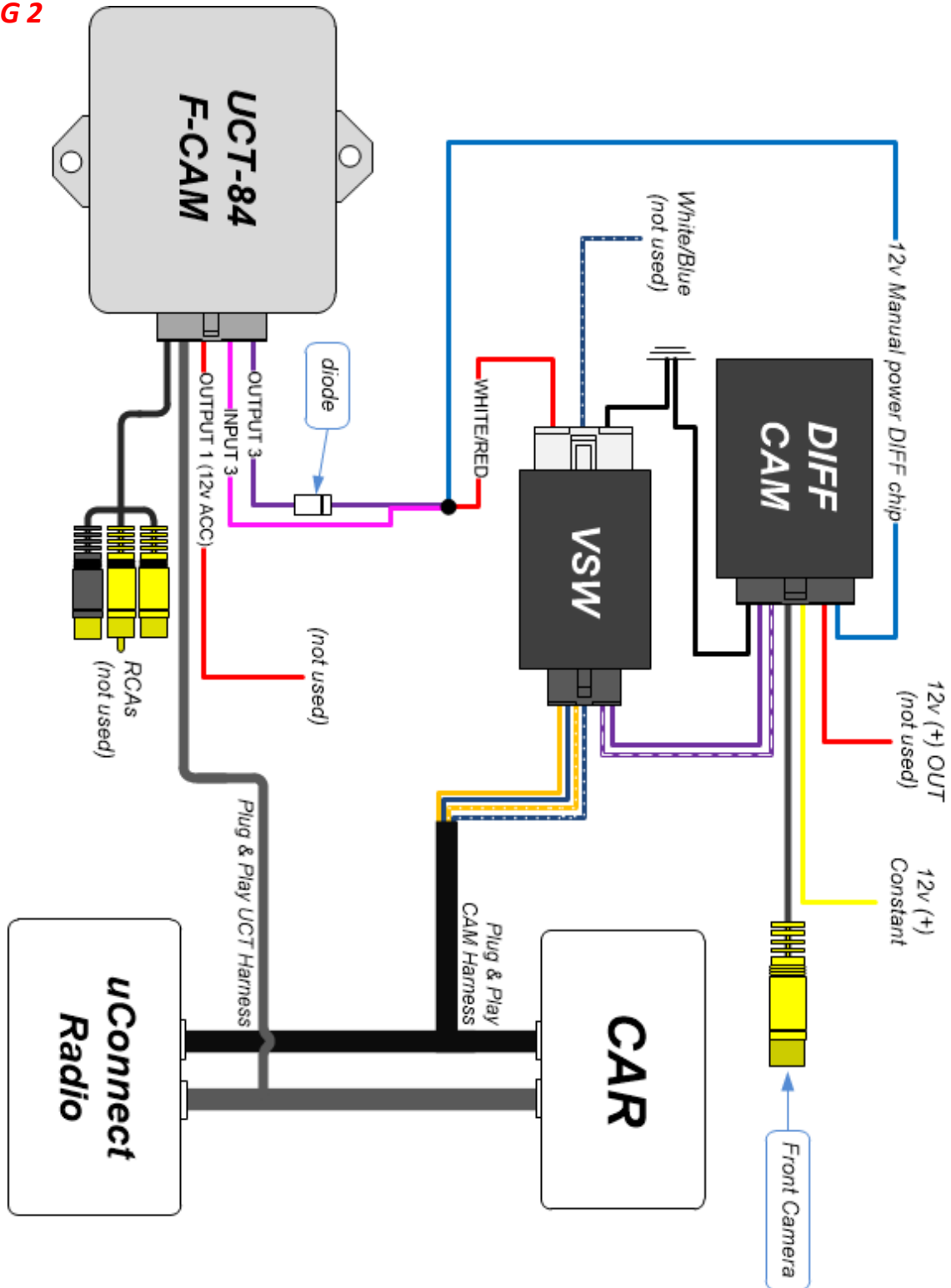


FIG 1



Connection Diagram (*Charger, 300, Journey*)

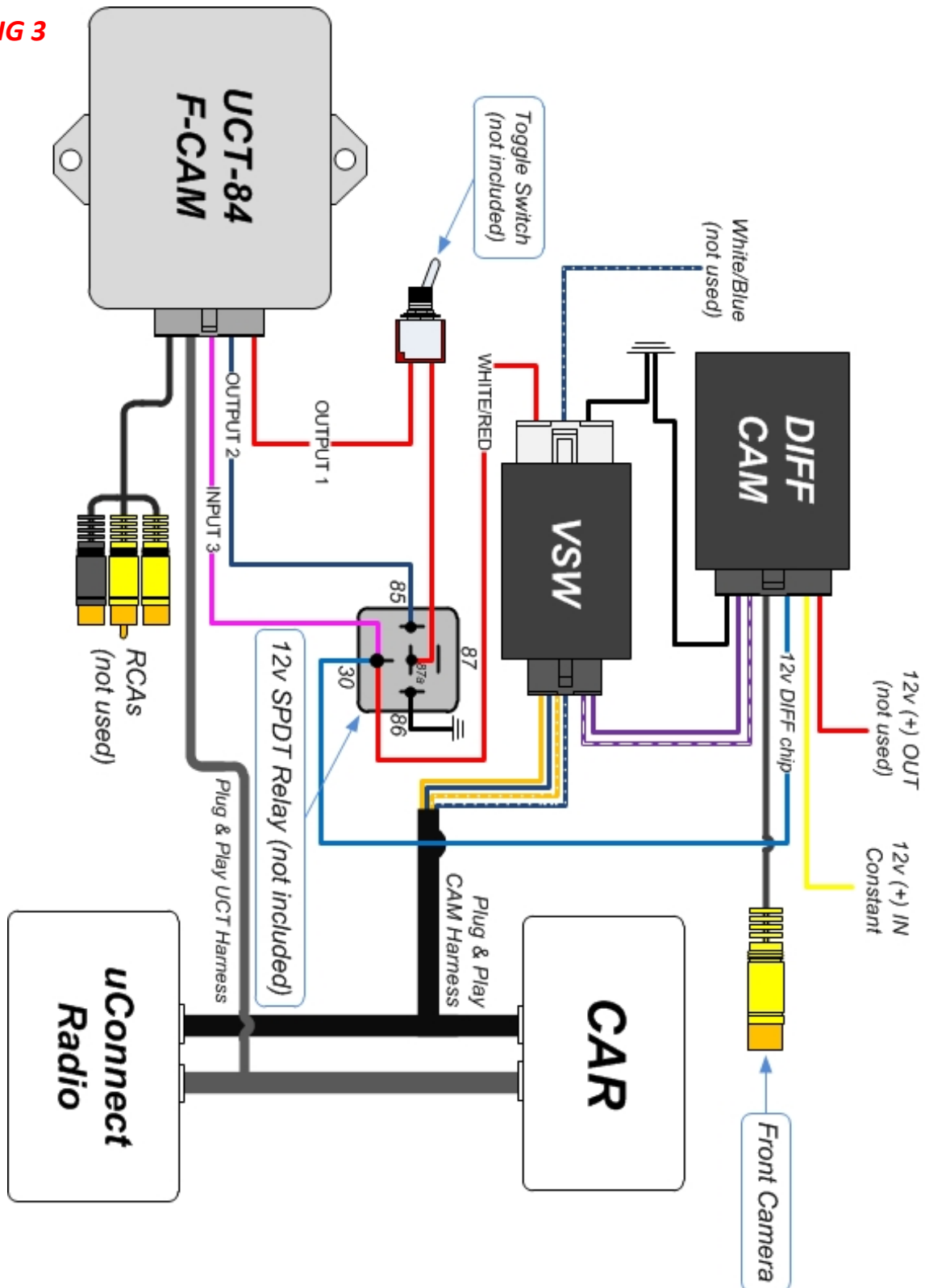
FIG 2



This diagram is for Dodge/Chrysler ONLY! Maserati wiring configuration is on page 6.

Connection Diagram (Maserati Ghibli, Quattroporte)

FIG 3



This diagram is intended for Maserati or Dodge/Chrysler

UCT84 F-CAM Operation

Video in motion is always enabled, no user interaction is required.

Video in Motion will allow:

- DVD video to be displayed while the vehicle is in motion
- Navigation input while moving
- Bluetooth operation while moving

***Note:** Navigation-based speed indication will not be available **while VIM is active**.

OEM Rear view camera will work normally in reverse.

NOTE: Forcing cameras **through an OEM dash button** is only supported with the Dodge Charger, Journey and Chrysler 300. More models will be added with further development.

Forced Rear Camera

is enabled by pressing the **Rear Defrost Button** twice within 1 second.

Forced Front Camera is enabled by pressing the **Front Defrost Button** twice within 1 second.

Double tap
for forced
front camera



Double tap
for forced
rear camera
(if equipped)

Forced Front Camera for Maserati Ghibli and Quattroporte is activated by flipping the toggle switch connected to the system (FIG 3). This action can be performed in any gear at any speed.